

Notice to Installers

The servicing instructions in this notice are for use by qualified service personnel only. To reduce risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.

Note to System Installer

For this apparatus, the coaxial cable shield/screen shall be grounded as close as practical to the point of entry of the cable into the building. For products sold in the US and Canada, this reminder is provided to call the system installer's attention to Article 820-93 and Article 820-100 of the NEC (or Canadian Electrical Code Part 1), which provides guidelines for proper grounding of the coaxial cable shield.



This symbol is intended to alert you that uninsulated voltage within this product may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this product.

Ce symbole a pour but d'alerter toute personne qu'un contact avec une pièce interne de ce produit, sous tension et non isolée, pourrait être suffisant pour provoquer un choc électrique. Il est donc dangereux d'être en contact avec toute pièce interne de ce produit.



CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

WARNING  
TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



This symbol is intended to alert you of the presence of important operating and maintenance (servicing) instructions in the literature accompanying this product.

Ce symbole a pour but de vous avertir qu'une documentation importante sur le fonctionnement et l'entretien accompagne ce produit.

20070131 SysInstaller 820 US/Canada/Intl

IMPORTANT SAFETY INSTRUCTIONS

Read These Instructions

Keep These Instructions

Heed All Warnings

Follow All Instructions

Power Source Warning

A label on this product indicates the correct power source for this product. Operate this product only from an electrical outlet with the voltage and frequency indicated on the product label. If you are uncertain of the type of power supply to your home or business, consult your service provider or your local power company.

Ground the Product



**WARNING:**  
Avoid electric shock and fire hazard! Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

If this product connects to coaxial cable wiring, be sure the cable system is grounded (earthed). Grounding provides some protection against voltage surges and built-up static charges.

Outdoor Grounding System

If this product connects to an outdoor antenna or cable system, be sure the antenna or cable system is grounded (earthed). This provides some protection against voltage surges and built-up static charges.

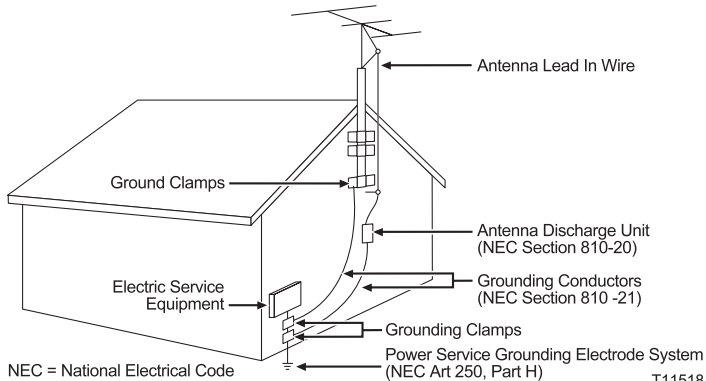
Article 810 of the National Electric Code (NEC) ANSI/NFPA No. 70-1990, provides the following information:

- Grounding of the mast and supporting structure
- Grounding the lead-in wire to an antenna discharge unit
- Size of the grounding conductors
- Location of the antenna-discharge unit
- Connection to grounding electrodes
- Requirements for the grounding electrodes (see the following antenna grounding diagram as recommended by NEC ANSI/NFPA 70)



**WARNING:**  
Avoid electric shock and fire hazard! Do not locate an outside antenna system in the vicinity of overhead power lines or power circuits. Touching power lines or circuits might be fatal.

Example Of Antenna Grounding



Protect the Product from Lightning

For added protection, unplug this apparatus during lightning storms or when unused for long periods of time. In addition to disconnecting the AC power from the wall outlet, disconnect the signal inputs.

Verify the Power Source from the On/Off Power Light

When the on/off power light is not illuminated, the apparatus may still be connected to the power source. The light goes out when the apparatus is turned off, regardless of whether it is still plugged into an AC power source.

Eliminate AC Mains Overloads



**WARNING:**  
Avoid electric shock and fire hazard! Do not overload AC mains, outlets, extension cords, or integral convenience receptacles. For products that require battery power or other power sources to operate them, refer to the operating instructions for those products.

Prevent Power Cord Damage

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where the cord exits from the apparatus.

Provide Ventilation and Select a Location

- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not place this apparatus on a bed, sofa, rug, or similar surface.
- Do not place this apparatus on an unstable surface.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not install this apparatus in an enclosure, such as a bookcase or rack, unless the installation provides proper ventilation.
- Do not place entertainment devices (such as VCRs or DVDs), lamps, books, vases with liquids, or other objects on top of this product.

Protect from Exposure to Moisture and Foreign Objects

Do not use this apparatus near water.



**WARNING:**  
Avoid electric shock and fire hazard! Do not expose this product to liquids, rain, or moisture.



**WARNING:**  
Avoid electric shock and fire hazard! Unplug this product before cleaning. Clean only with a dry cloth. Do not use a liquid cleaner or an aerosol cleaner. Do not use a magnetic/static cleaning device (dust remover) to clean this product.



**WARNING:**  
Avoid electric shock and fire hazard! Never push objects through the openings in this product. Foreign objects can cause electrical shorts that can result in electric shock or fire.

Accessories Warning



**WARNING:**  
Avoid electric shock and fire hazard! Only use attachments/accessories specified by your service provider or the manufacturer.

Service Warnings



**WARNING:**  
Avoid electric shock! Do not open the cover of this product. Opening or removing the cover may expose you to dangerous voltages. If you open the cover, your warranty will be void. This product contains no user-serviceable parts. Refer all servicing to qualified service personnel.

Servicing is required when the apparatus has been damaged in any way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Check Product Safety

Upon completion of any service or repairs to this product, the service technician must perform safety checks to determine that this product is in proper operating condition.

Protect the Product when Moving It

Always disconnect the power source when moving the apparatus or connecting or disconnecting cables.



**WARNING:**  
Avoid personal injury and damage to this product! Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

20070320 Set-Top Cable US & Canada

FCC Compliance

United States FCC Compliance

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against such interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna, if applicable.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the cable company or an experienced radio/television technician for help.

Any changes or modifications not expressly approved by Scientific-Atlanta, Inc., could void the user's authority to operate the equipment.

Connecting the Explorer<sup>®</sup> 4240HDC<sup>™</sup> and 4250HDC<sup>™</sup> Digital Set-Top with Multi-Stream CableCARD<sup>™</sup> Interface



Scientific Atlanta  
A CISCO COMPANY

The information shown in the FCC Declaration of Conformity paragraph below is a requirement of the FCC and is intended to supply you with information regarding the FCC approval of this device. The phone numbers listed are for FCC-related questions only and not intended for questions regarding the connection or operation for this device. Please contact your cable service provider for any questions you may have regarding the operation or installation of this device.

FCC Declaration of Conformity

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: 1) the device may not cause harmful interference, and 2) the device must accept any interference received, including interference that may cause undesired operation.

Explorer Digital Interactive Set-top  
Model: 4240HDC and 4250HDC  
Manufactured by: Scientific-Atlanta, Inc.  
5030 Sugarloaf Parkway  
Lawrenceville, Georgia 30044 USA  
Telephone: 770-236-1077

Canada EMI Regulation

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la class B est conforme à la norme NMB-003 du Canada.

20060628FDC

Disclaimer

Scientific-Atlanta, Inc. assumes no responsibility for errors or omissions that may appear in this guide. Scientific Atlanta reserves the right to change this guide at any time without notice.

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A CISCO COMPANY

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## Welcome!

The Explorer® 4240HDC™ and 4250HDC™ Digital Set-Top with a Multi-Stream CableCARD™ (M-Card™) delivers high-definition programming in exceptional picture and audio quality. The M-Card provides system security and authorization of digital services. Through the 4240HDC and 4250HDC you can also access interactive services, such as video-on-demand and pay-per-view programs. Contact your service provider for information about these and other available services. Use the instructions in this guide to install the 4240HDC or the 4250HDC and to access your program services.

**Important!** If the M-Card is removed, the set-top will not operate correctly.

For more information about this product, visit our website:  
[www.scientificatlanta.com/products/consumers/new\\_cableboxes.htm](http://www.scientificatlanta.com/products/consumers/new_cableboxes.htm)

## Safety First

Before using this set-top read the IMPORTANT SAFETY INSTRUCTIONS section of this guide.

## Watch TV

Press the following remote control keys to access services and programs:

- Guide—Display the on-screen program guide
- Arrows—Highlight a program in the schedule
- Info—Display program description
- Select—Watch a specific program in the guide

## Avoid Screen Burn-In!

Images such as letterbox bars or side bars, bright closed-captioning backgrounds, station logos, or any other stationary images may cause the HDTV screen to age unevenly and cause damage to your HDTV. Refer to the user's guide that came with your HDTV for more information about screen burn-in.

## Automatic Software Updates

A message appears on the TV screen when the set-top and the M-Card module are receiving software updates. In addition, download information also appears on the front panel of the set-top during these updates. Wait for the current time to display on the front panel before continuing. When the time appears, the update is complete.

**Note:** If you need further assistance, contact your service provider.

## Performance Tips

If the set-top does not perform as expected, the following tips may help.

### No picture

- Verify that the M-Card module is installed.
- Verify that the power to your TV is turned on.
- If the set-top is plugged into a wall switch, verify the switch is in the ON position. (Avoid plugging into an outlet that is controlled by a wall switch.)
- Verify that all cables are properly connected.
- The current channel may not be available in your service package. Try selecting another channel to see if a picture appears.

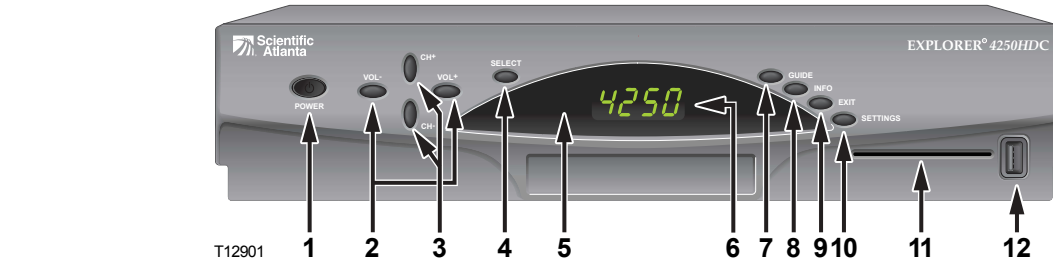
### No color

- Verify that the HDTV is in HD mode. If necessary, re-run the HDTV Setup Wizard to select HD mode.
- Verify the current TV program is broadcast in color.
- Adjust the TV color controls.

### No sound

- If your setup includes a VCR or stereo, verify that you have properly connected them to the set-top.
- Verify the volume is turned up.
- Verify the mute function is not on.

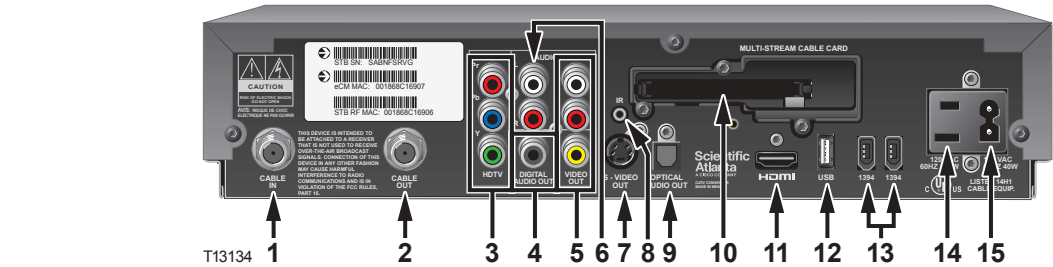
## Explorer 4250HDC Front Panel



- |                           |   |
|---------------------------|---|
| <b>1 Power</b>            | Turns the set-top on and off  |
| <b>2 VOL +, VOL -</b>     | Increases and decreases the volume  |
| <b>3 CH+, CH -</b>        | Scrolls up and down through the channels  |
| <b>4 Select</b>           | Provides access to your on-screen selection   |
| <b>5 IR Sensor</b>        | Receives the infrared signal from the remote control  |
| <b>6 LED Display</b>      | Displays the selected channel number and time of day. The LED also displays the following: <ul style="list-style-type: none"><li>• Message (  )</li><li>• HDTV</li><li>• Power (  )</li><li>• Output Resolution (1080i, 720p, 480p, or 480i)</li><li>• AUTO - Automatically outputs native scan rates that your TV can accept</li></ul> |
| <b>7 Guide</b>            | Accesses on-screen services, such as the on-screen guide, video-on-demand, or pay-per-view  |
| <b>8 Info</b>             | Displays a description of the selected program. This button is available from the on-screen guide and while viewing a program   |
| <b>9 Exit</b>             | Exits menus, the on-screen guide, and program information   |
| <b>10 Settings</b>        | Provides access to the Settings menu  |
| <b>11 Smart Card Slot</b> | Reserved for future use   |
| <b>12 USB Port</b>        | Connects to external equipment, such as a keyboard or mouse (reserved for future use)   |

**Note:** This illustration may vary from the actual product.

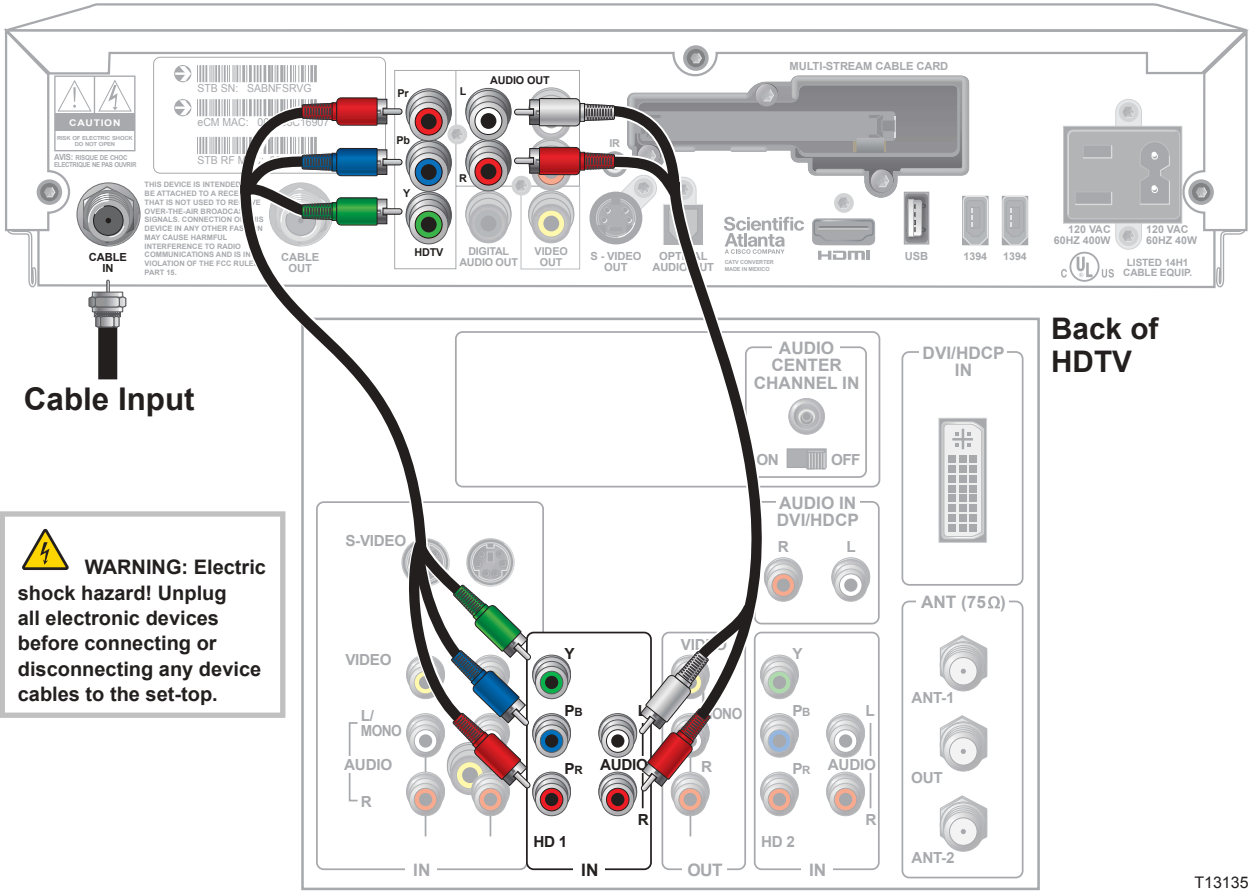
## Explorer 4240HDC and 4250HDC Back Panel



- |   |   |
|---|---|
| <b>1 Cable In</b>                           | Connects to a coaxial cable that delivers the signal from your service provider   |
| <b>2 Cable Out</b>                          | Connects to a coaxial cable that sends analog audio and video signals to a TV or VCR. These signals are standard-definition TV (SDTV) video and stereo audio  |
| <b>3 HDTV</b>                               | Connects to the component video input (YPbPr) on the HDTV, when in HD mode.   |
| <b>4 Digital Audio Out</b>                  | Connects to an RCA cable that sends a digital audio signal to a surround-sound receiver or other digital audio device   |
| <b>5 Out 2 (Secondary Video/ Audio Out)</b> | Connects to either a VCR or to another set of inputs (composite) on your TV   |
| <b>6 Audio Out (Left, Right)</b>            | Connects to RCA cables that send analog audio signals (left and right) to the stereo inputs on a TV   |
| <b>7 S-Video Out</b>                        | Connects to an S-Video cable that sends an S-Video signal to your TV or VCR. This signal is standard definition, but higher quality than other SDTV connections   |
| <b>8 IR</b>                                 | Connector reserved for future use   |
| <b>9 Optical Audio Output</b>               | Connects to an optical cable that sends a digital audio signal to a surround-sound receiver or other digital audio device   |
| <b>10 Multi-Stream CableCARD</b>            | Installed by your service provider  |
| <b>11 HDMI</b>                              | Connects an HDMI™ cable to the HDMI input of an HDTV. HDMI supports both digital audio and video. May be used to connect to a DVI interface using an HDMI-to-DVI adaptor for video and separate audio connections. Any of the following audio connections may be used: Digital Audio Out (4); Audio Out: Left, Right (6); or Optical Audio Output (9) |
| <b>12 USB</b>                               | Connects to external USB devices such as a keyboard or a mouse  |
| <b>13 1394</b>                              | Connects to display devices that are equipped with a 1394 input   |
| <b>14 AC Outlet</b>                         | Connects to the AC power cord from another device, such as a TV   |
| <b>15 AC Power Input</b>                    | Connects to the power cord to deliver power to the set-top  |

**Note:** This illustration may vary from the actual product.

## Explorer 4240HDC and 4250HDC



## Connecting to an HDTV with Component Input (YPbPr)

Use the connection diagram and follow these steps to connect the set-top to an HDTV that has a component video connector (YPbPr) and an audio left/right connector.

1. Insert the M-Card module if not already installed.
2. Connect the set-top to the coaxial cable coming from the wall.
3. Connect the Y (green) connector on the HDTV to the Y (green) connector on the set-top; connect the Pb (blue) connector on the HDTV to the Pb (blue) connector on the set-top; and connect the Pr (red) connector on the HDTV to the Pr (red) connector on the set-top.
4. Connect the left audio (white) connector on the HDTV to the left audio (white) connector on the set-top, and connect the right audio (red) connector on the HDTV to the right audio (red) connector on the set-top.
5. Plug the set-top and the HDTV into an AC power source.

**Important:** To potentially protect the set-top from power surge damage, ground (earth) your cable product to provide some protection against voltage surges and built-up static charges. You may be able to reduce the risk of damage from voltage surges, which can be caused by lightning storms and power outages, by plugging the set-top into a surge protector.

6. Wait several minutes for the set-top to receive the latest software, programming, and service information. One of the following will display on the front panel of the set-top:

- Current time
- Four dashes (----

**Note:**

- If the current time displays, the update is complete.
- If four dashes display, you must call your service provider to get the set-top authorized.

7. To begin watching TV, turn on the HDTV and press Power on the front panel of the set-top, or press Power on the remote control.

## U.S. Patents

A patent notice is affixed to this product. In addition, the product may also be covered by one or more of the following patents:

4,498,169; 4,692,919; 4,748,667; 4,829,569; 4,866,770; 4,885,775; 4,888,799; 4,890,319; 4,922,456; 4,922,532; 4,924,498; 4,965,534; 4,991,011; 5,003,384; 5,012,510; 5,029,207; 5,045,816; 5,053,883; 5,054,071; 5,058,160; 5,142,575; 5,142,690; 5,146,526; 5,155,590; 5,214,390; 5,225,902; 5,225,925; 5,235,619; 5,237,610; 5,239,540; 5,241,610; 5,247,364; 5,255,086; 5,257,403; 5,267,071; 5,270,809; 5,271,041; 5,272,752; 5,282,028; 5,285,497; 5,287,351; 5,301,028; 5,309,514; 5,317,391; 5,319,709; 5,341,425; 5,347,388; 5,347,389; 5,357,276; 5,359,601; 5,361,156; 5,367,571; 5,379,141; 5,379,145; 5,381,481; 5,390,337; 5,400,401; 5,406,558; 5,418,782; 5,420,866; 5,420,923; 5,425,101; 5,428,404; 5,430,568; 5,434,610; 5,436,749; 5,438,370; 5,440,632; 5,442,472; 5,455,570; 5,457,701; 5,471,492; 5,477,199; 5,477,262; 5,477,282; 5,477,370; 5,481,389; 5,481,542; 5,485,221; 5,493,339; 5,497,187; 5,500,758; 5,502,499; 5,506,904; 5,519,780; 5,539,822; 5,550,825; 5,579,055; 5,579,057; 5,583,562; 5,592,551; 5,596,606; 5,600,378; 5,602,933; 5,640,388; 5,657,414; 5,675,575; 5,684,876; 5,715,515; 5,724,525; 5,734,822; 5,740,300; 5,742,677; 5,754,940; 5,757,416; 5,771,064; 5,774,859; 5,825,829; 5,826,167; 5,850,305; 5,854,703; 5,870,474; 5,892,607; 5,920,626; 5,923,755; 5,930,024; 5,930,515; 5,937,067; 5,963,352; 5,966,163; 5,982,424; 5,991,139; 5,999,207; 6,005,631; 6,005,938; 6,016,163; 6,028,941; 6,029,046; 6,052,384; 6,055,244; 6,072,532; 6,105,134; 6,148,039; 6,157,719; 6,188,729; 6,195,389; 6,212,278; 6,215,530; 6,219,358; 6,240,103; 6,243,145; 6,246,767; 6,252,964; 6,272,226; 6,292,081; 6,292,568; 6,320,131; 6,374,275; 6,405,239; 6,411,602; 6,417,949; 6,424,714; 6,424,717; 6,433,906; 6,438,139; 6,463,586; 6,467,091; 6,476,878; 6,493,876; 6,510,519; 6,516,002; 6,516,412; 6,526,508; 6,538,595; 6,546,013; 6,560,340; 6,567,118; 6,570,888; 6,622,308; 6,629,227; 6,664,984; 6,667,994; 6,671,879; 6,674,967; 6,678,891; 6,714,598; 6,721,352; 6,721,956; 6,725,459; 6,738,982; 6,744,892; 6,744,967; 6,751,271; 6,760,918; 6,795,972; 6,802,077; 6,804,708; 6,811,447; 6,817,028; 6,822,972; 6,823,385; 6,832,386; 6,845,106; 6,868,473; 6,874,075; 6,889,191; 6,909,471; 6,917,622; 6,917,628; 6,922,412; 6,927,806; 6,928,656; 6,931,058; 6,937,729; 6,969,279; 6,971,008; 6,971,121; 6,978,310; 6,986,156; 6,988,900; 6,996,838; 7,010,801; 7,053,960; 7,065,213; 7,069,578; 7,069,572; D348065; D354959; D359737; D363932; D390217; D434753; D507240; D507535; D513407; D516518; RE36368; RE36988